

IN THE CLAIMS:

Claim 1 (currently amended): An ultrasonic diagnostic apparatus for transmitting and receiving an ultrasonic wave with regard to a living body and providing a three-dimensional image of an organ based on the received ultrasonic wave, ~~wherein~~ comprising:

a means for inverting a brightness value of each voxel regarding three-dimensional data obtained ~~[[by a]]~~ from received ultrasonic signal ~~is inverted~~ so as to display a cavity portion of the organ, and a three-dimensional image of the cavity portion of the organ is provided based on the inverted data;

a means for binarizing the brightness value before or after inversion of the brightness value of each voxel, ~~the brightness value is binarized; [[and]]~~

~~after each voxel is inverted and said brightness binarized, noise is removed~~ a means for setting a region of interest outside a target portion so as to surround the target portion;
and

a means for three-dimensionally displaying inverted and binarized voxels present within the set region of interest.

Claim 2 (canceled).

Claim 3 (canceled).

Claim 4 (currently amended): An ultrasonic diagnostic apparatus according to claim 1, ~~wherein~~ comprising:

a means for calculating and providing a volume of the cavity portion of the organ ~~is calculated and provided~~ based on the three-dimensional image of the cavity portion.

Claim 5 (currently amended): An ultrasonic diagnostic apparatus according to claim 4, ~~wherein~~ comprising:

a means for calculating and providing data for supporting diagnosis ~~is calculated and provided~~ based on a result of the calculation of the volume of the cavity portion.

Claim 6 (original): An ultrasonic diagnostic apparatus according to claim 1, wherein the organ to be observed is a heart.

Claim 7 (original): An ultrasonic diagnostic apparatus according to claim 6, wherein the cavity portion to be observed is the left ventricle.